What is claimed is:

1. An optical recording apparatus comprising: a semiconductor laser having a blue color wavelength and generating a light beam;

an optical fiber;

a laser module which guides the light beam of the semiconductor laser to the optical fiber; and

an optical recording medium which is applied an output beam from the optical fiber to form a latent image,

wherein a relative refractive index difference of the optical fiber is in a range of from 0.1 % to 0.2 %, a core diameter of the optical fiber is $4.5\,\mu$ m or less and a diameter of a beam spot emitted from the optical fiber is 3 μ m or more.

2. The optical recording apparatus according to Claim 1, wherein

the semiconductor laser comprises a plurality of semiconductor lasers;

the laser module comprises a plurality of laser modules,

the optical fiber comprises a plurality of optical fibers,

wherein respective optical fibers are aligned at an equal interval in an array.

- 3. The optical recording apparatus according to Claim 1, wherein a wavelength of the semiconductor laser is in a range of from 390 nm to 450 nm.
- 4. The optical recording apparatus according to Claim 2, wherein a wavelength of the semiconductor laser is in a range of from 390 nm to 450 nm.
- 5. The optical recording apparatus according to Claim 1, wherein a spot of the output beam applied to the optical recording medium has a single peak circular light intensity distribution.
- 6. The optical recording apparatus according to Claim 1, wherein a spot of the output beam applied to the optical recording medium has a single peak elliptic Gaussian light intensity distribution.
- 7. The optical recording apparatus according to Claim 2, wherein a spot of the output beam applied to the optical recording medium has a single peak circular light intensity distribution.
 - 8. The optical recording apparatus according to

Claim 2, wherein a spot of the output beam applied to the optical recording medium has a single peak elliptic Gaussian light intensity distribution.

- 9. The optical recording apparatus according to Claim 1, wherein the latent image is visualized and printed on a recording medium.
- 10. The optical recording apparatus according to Claim 2, wherein the latent image is visualized and printed on a recording medium.